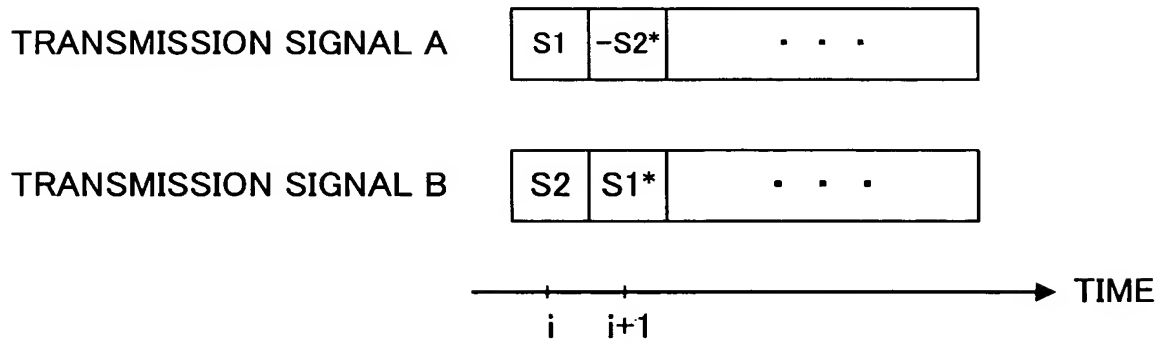


PRIOR ART

FIG.1



PRIOR ART

FIG.2



10 MULTI-ANTENNA COMMUNICATION SYSTEM

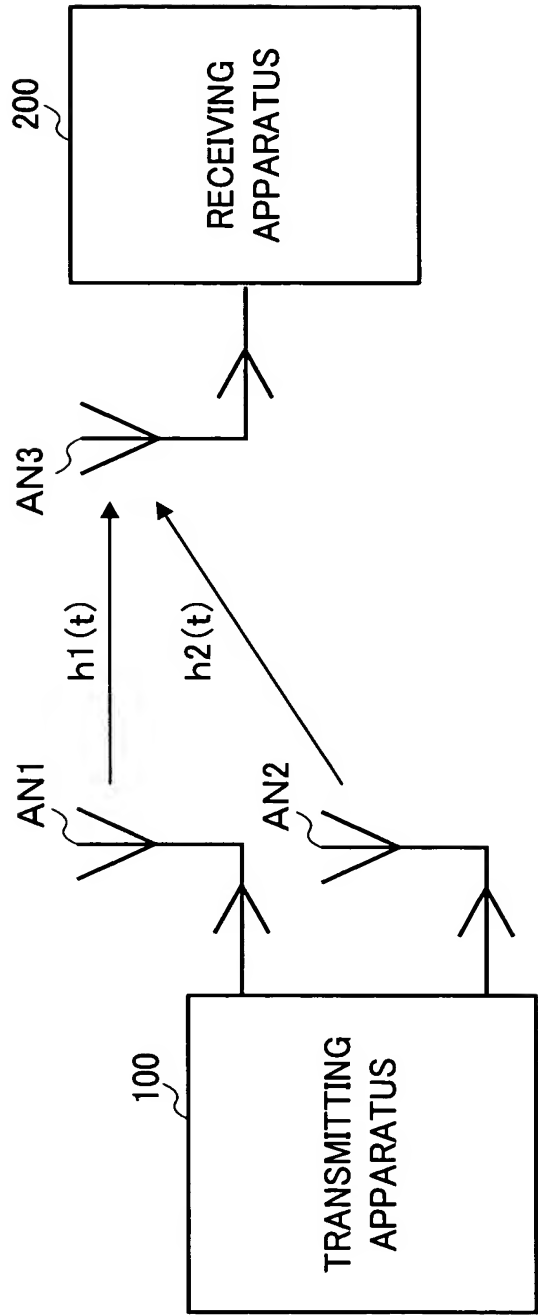


FIG.3

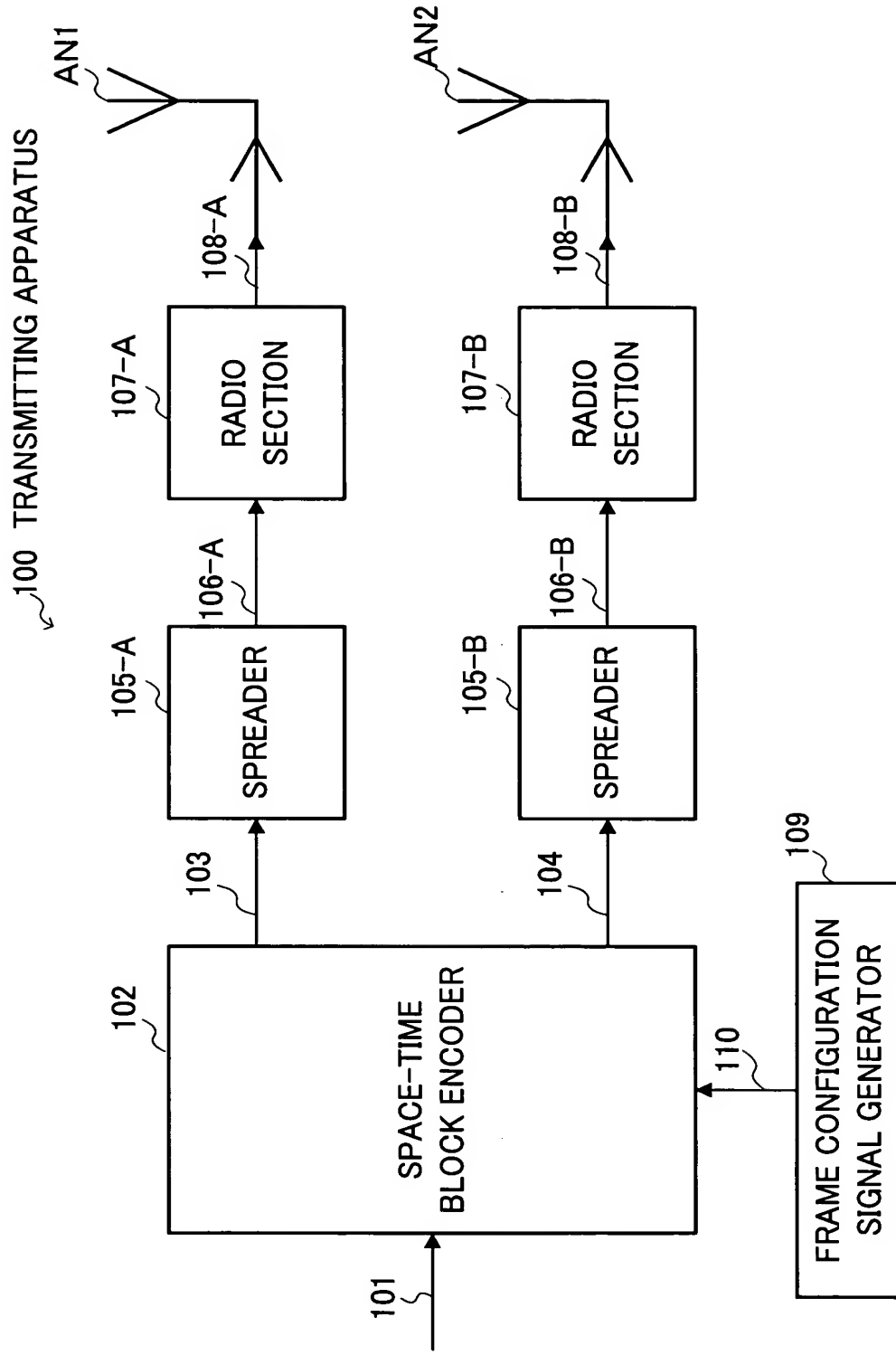


FIG.4

102 SPACE-TIME BLOCK ENCODER

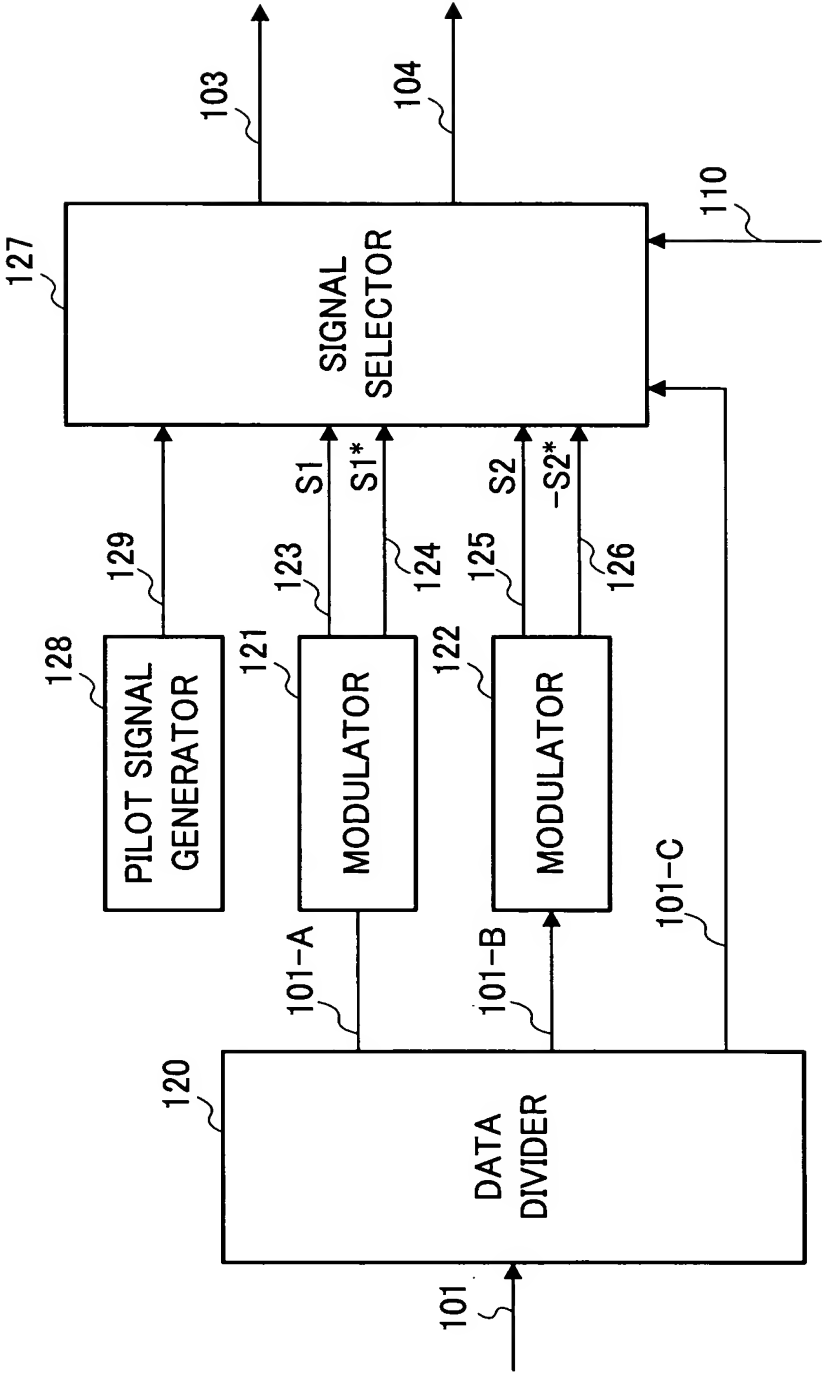


FIG.5

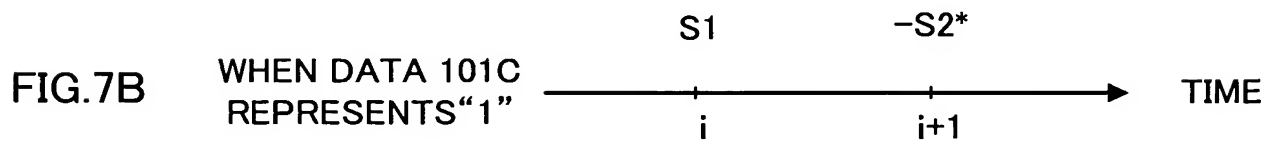
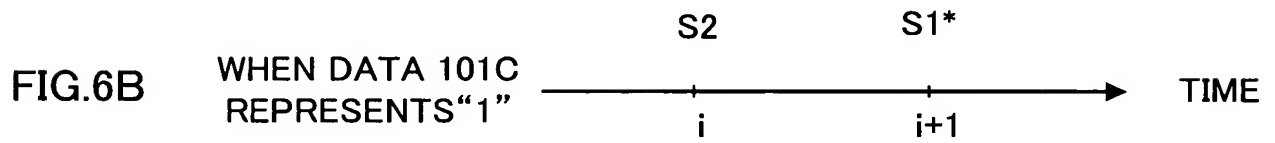
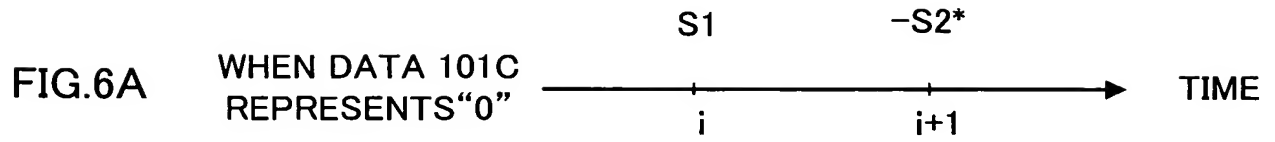


FIG.8A

WHEN DATA 101C
REPRESENTS "0"

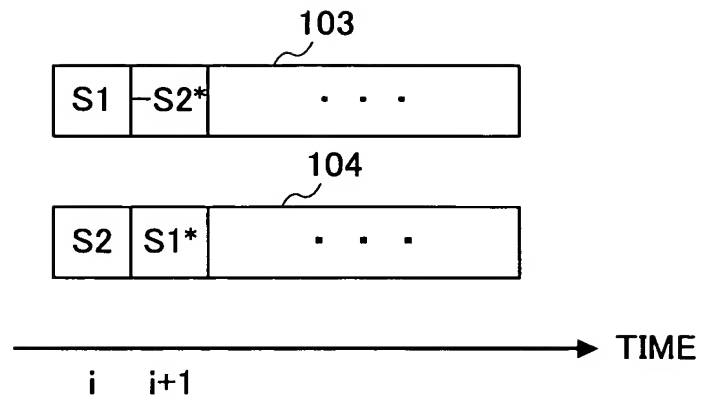
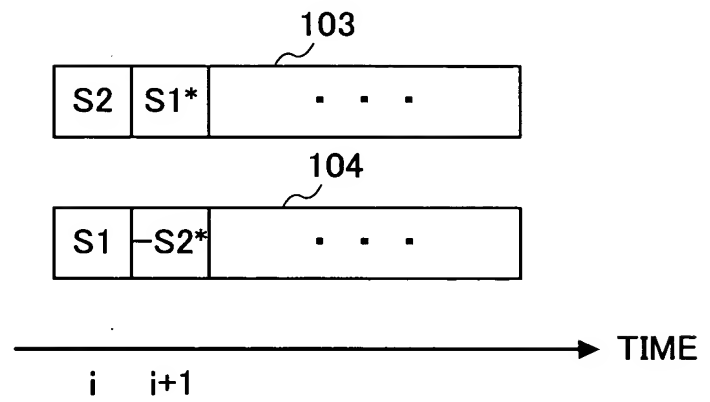


FIG.8B

WHEN DATA 101C
REPRESENTS "1"



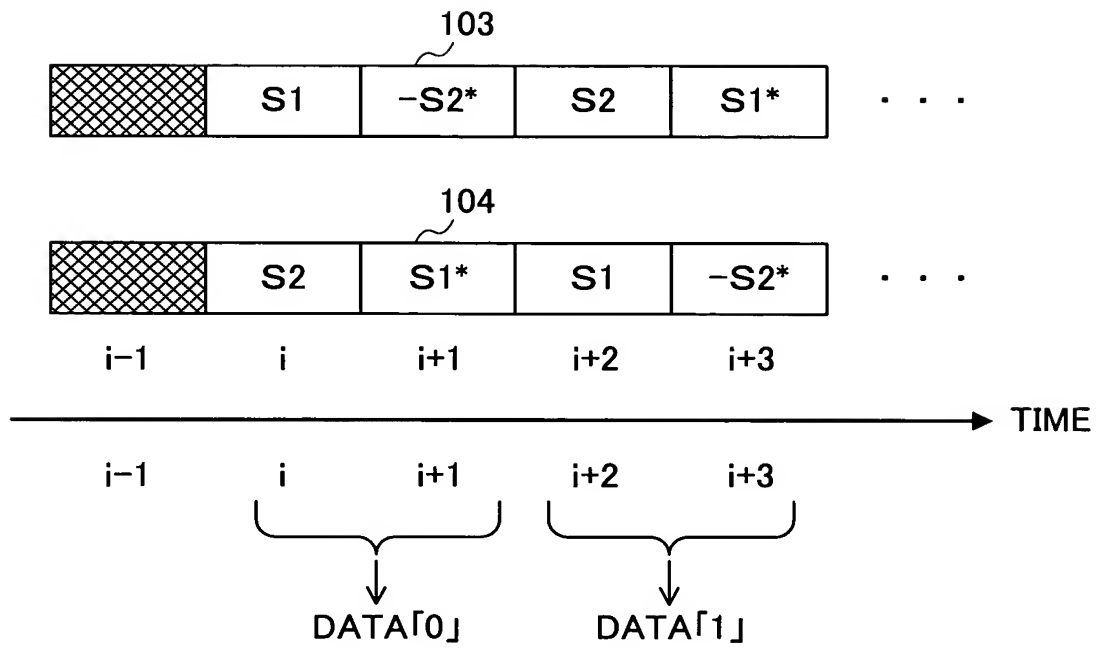


FIG.9

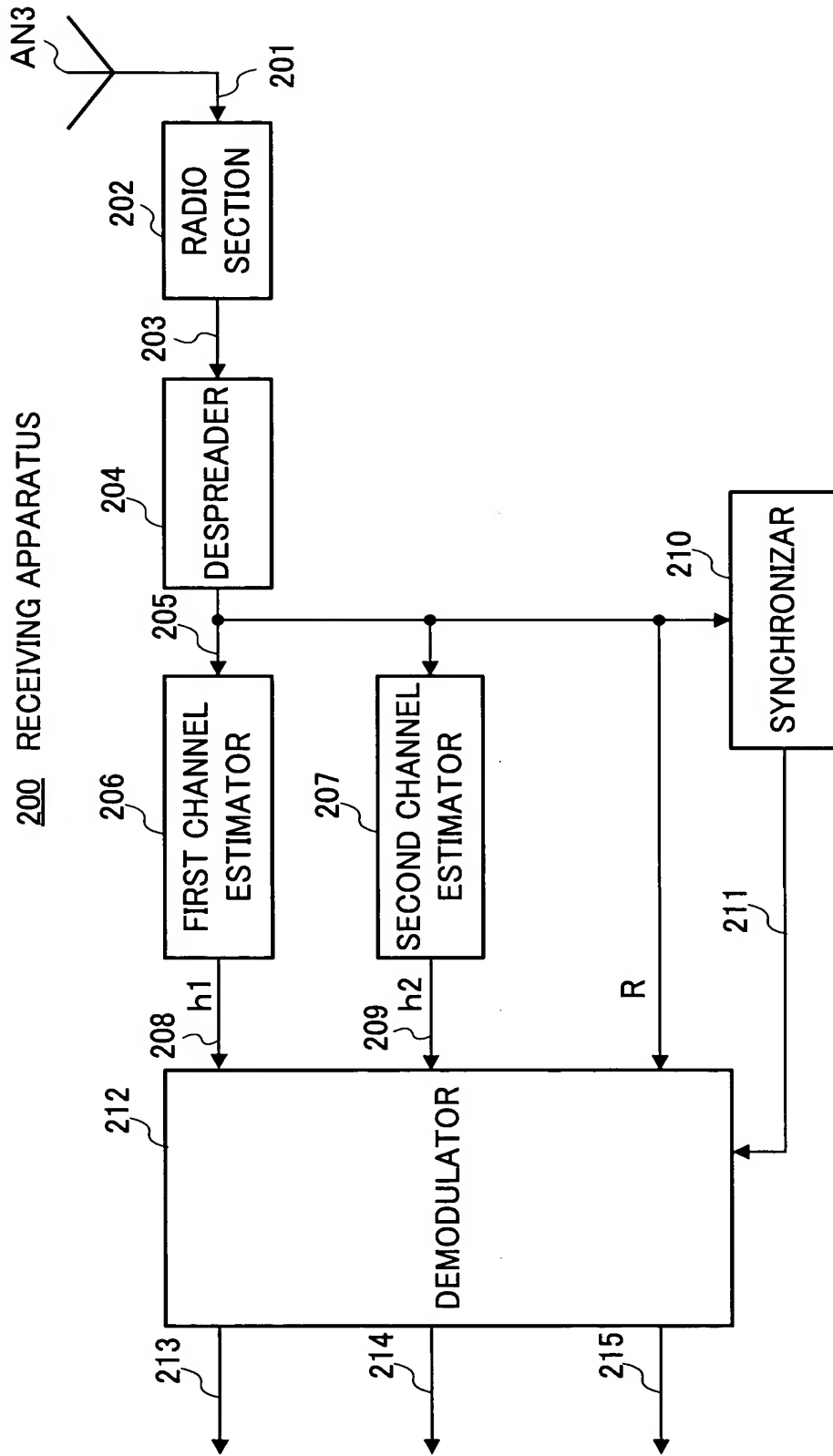


FIG.10

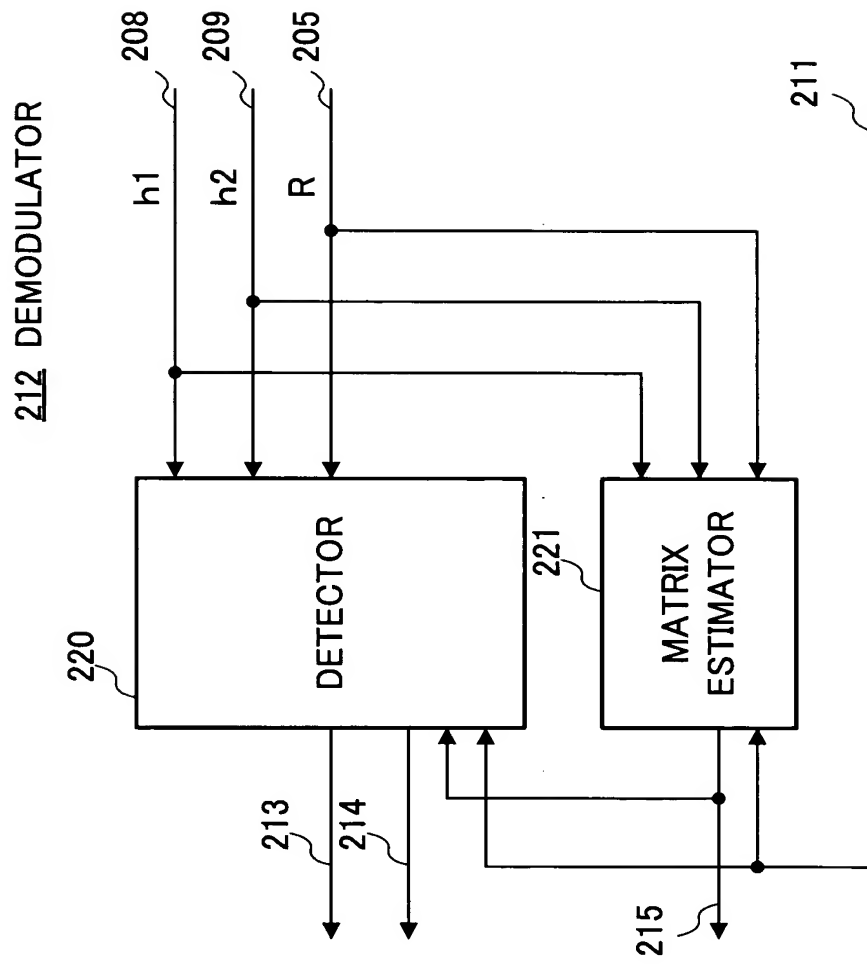


FIG.11

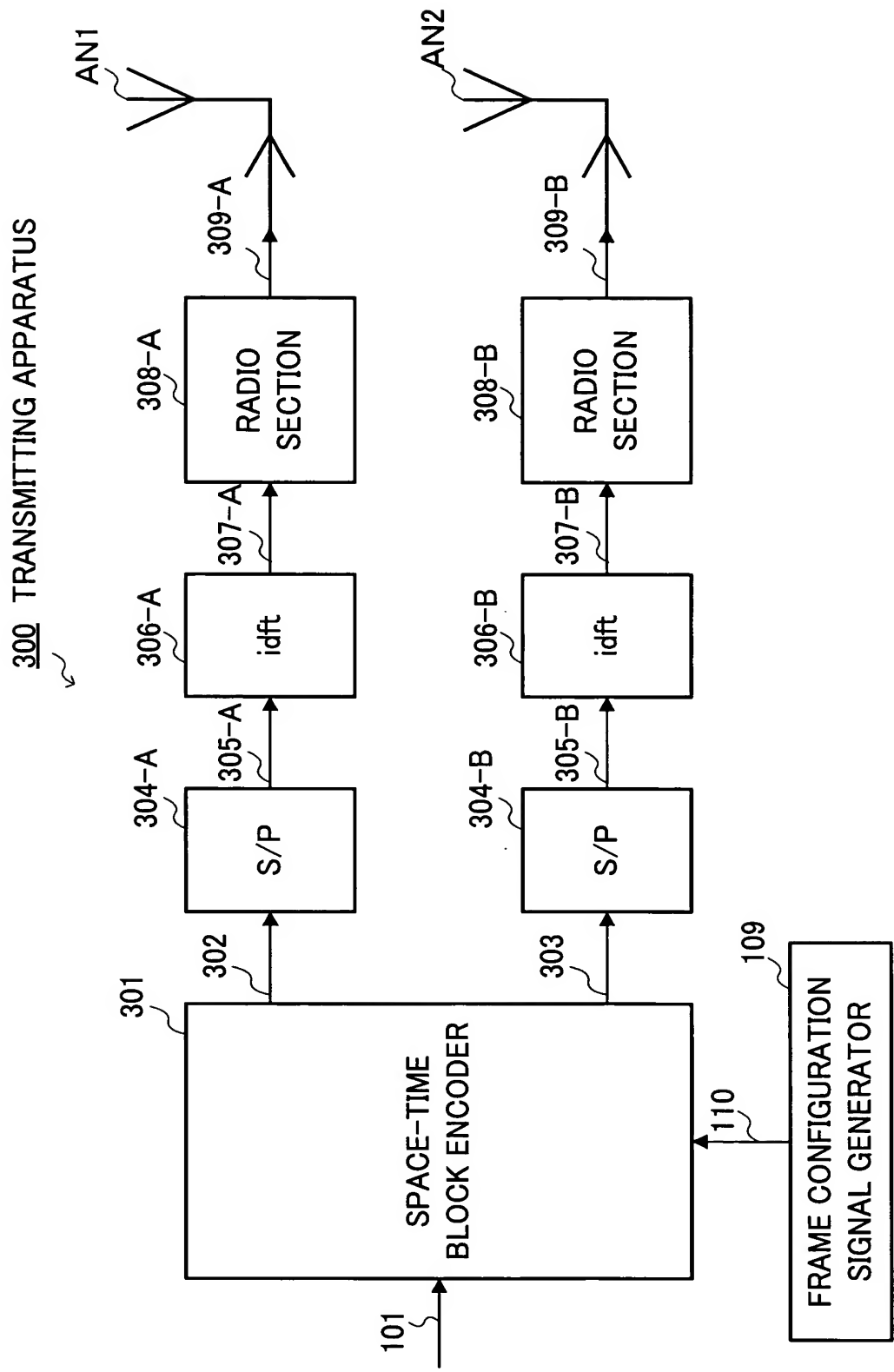


FIG.12

301 SPACE-TIME BLOCK ENCODER

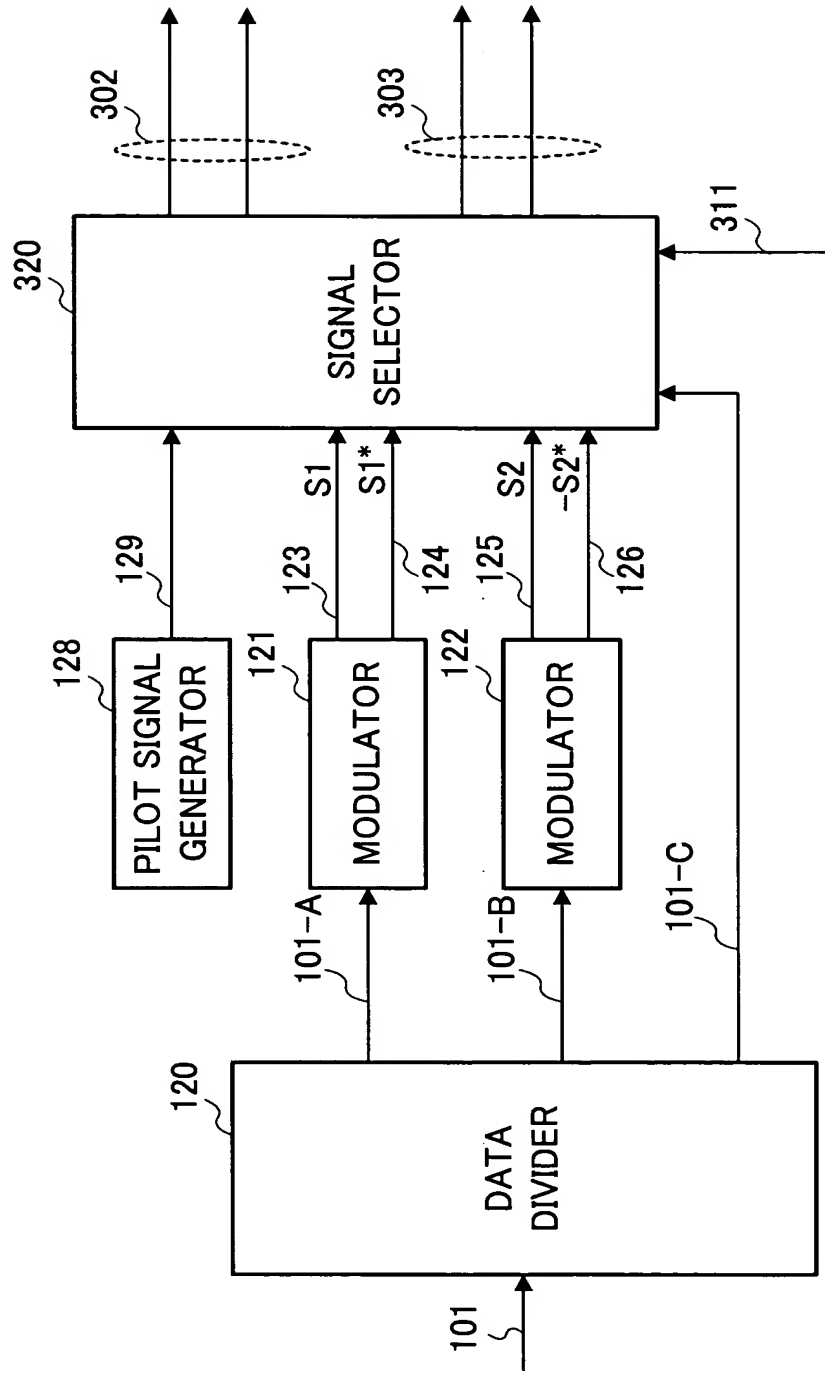


FIG.13

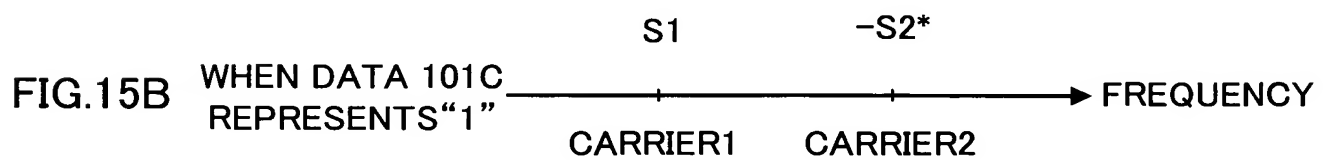
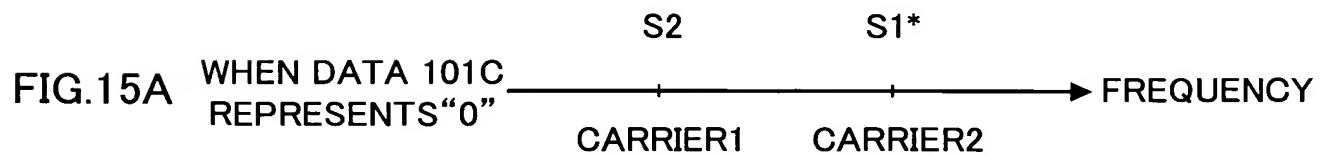
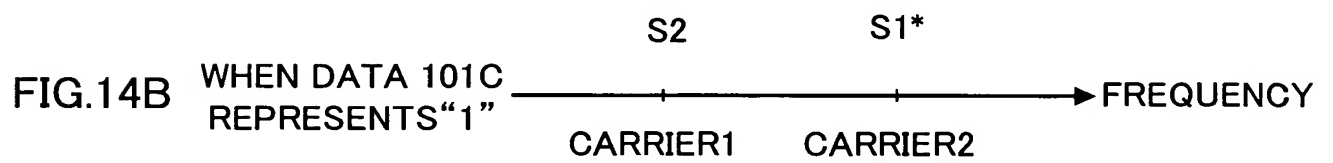
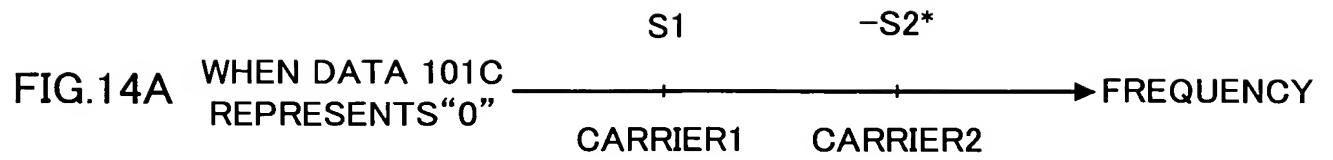


FIG.16A

WHEN DATA 101C
REPRESENTS "0"

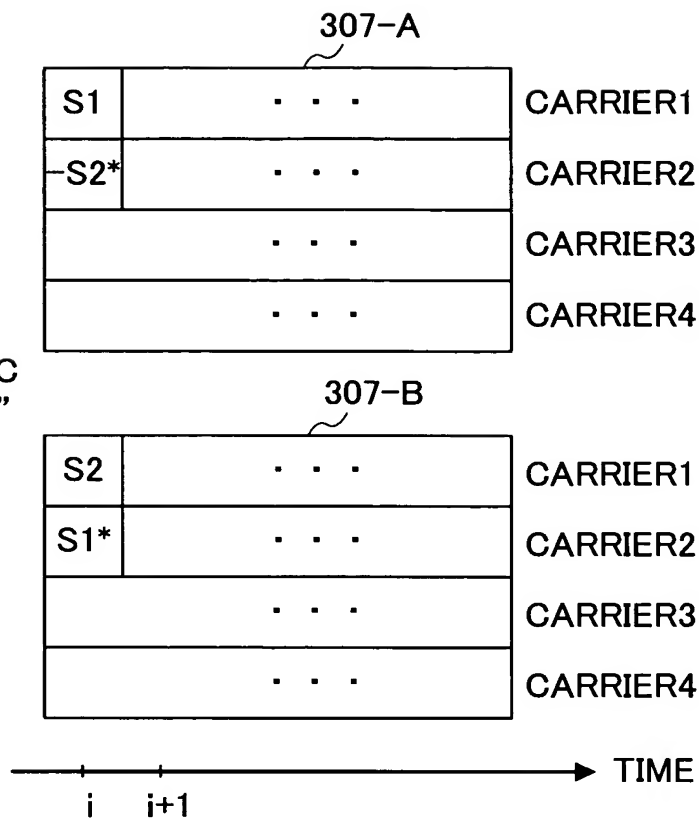
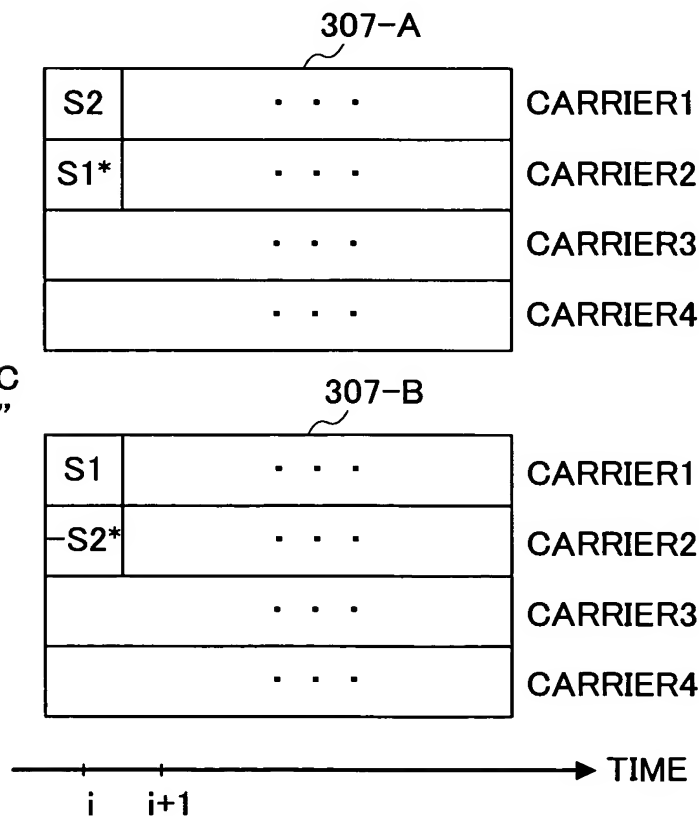


FIG.16B

WHEN DATA 101C
REPRESENTS "1"



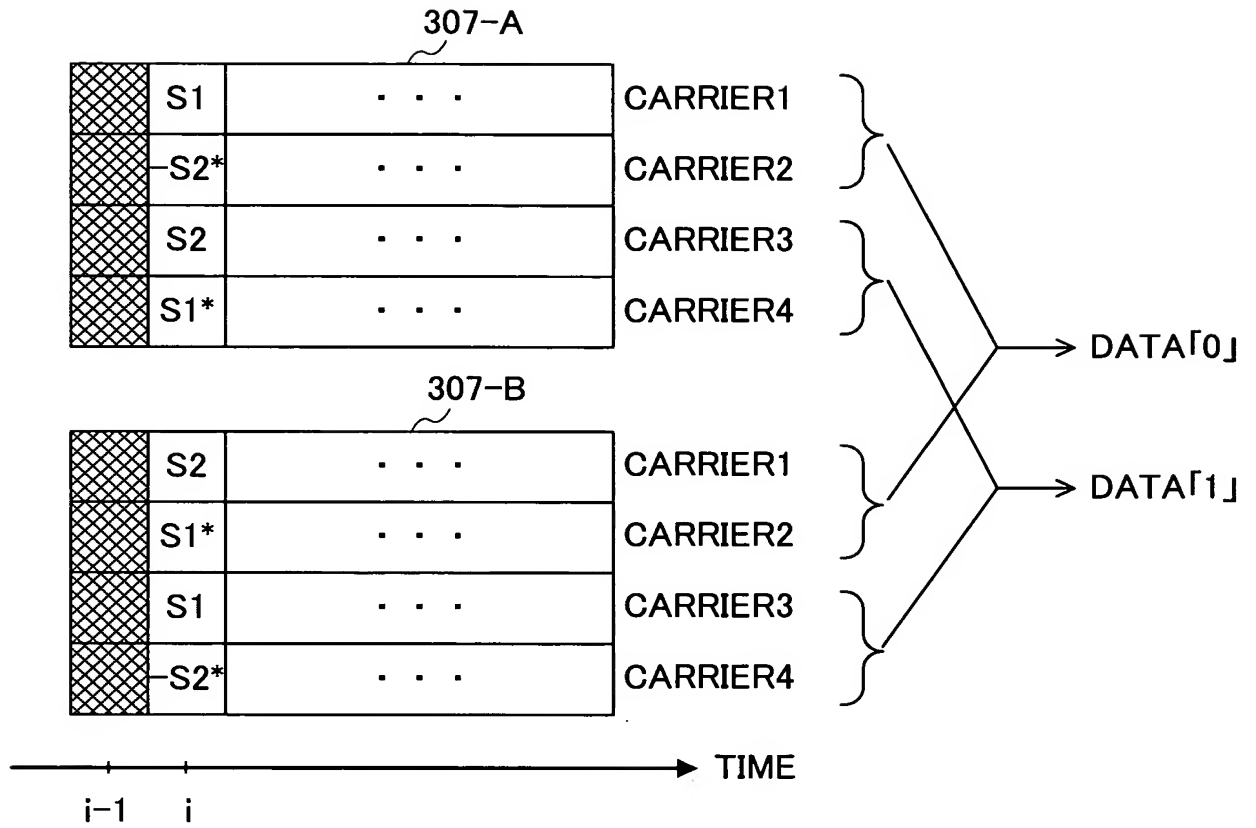


FIG.17

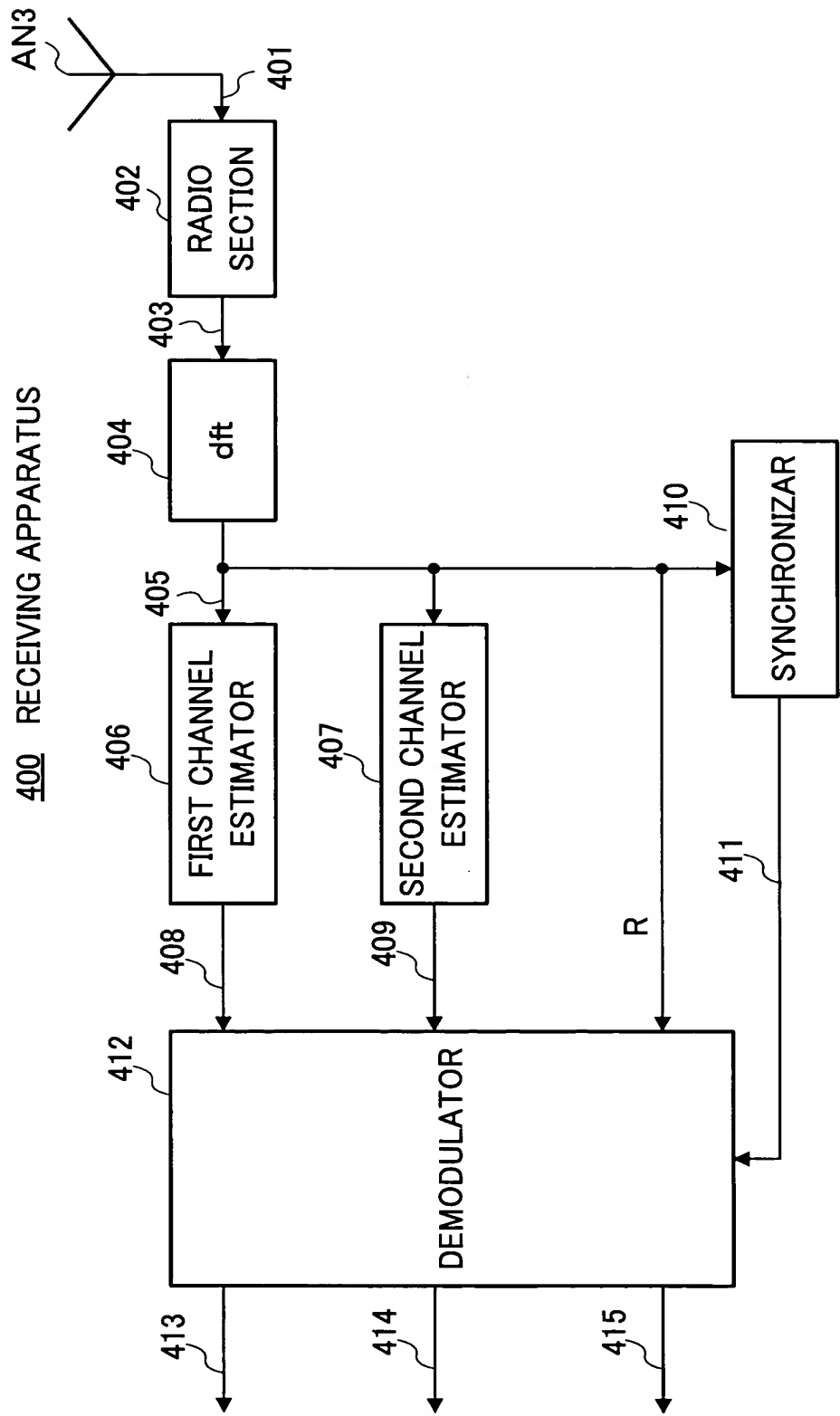


FIG.18

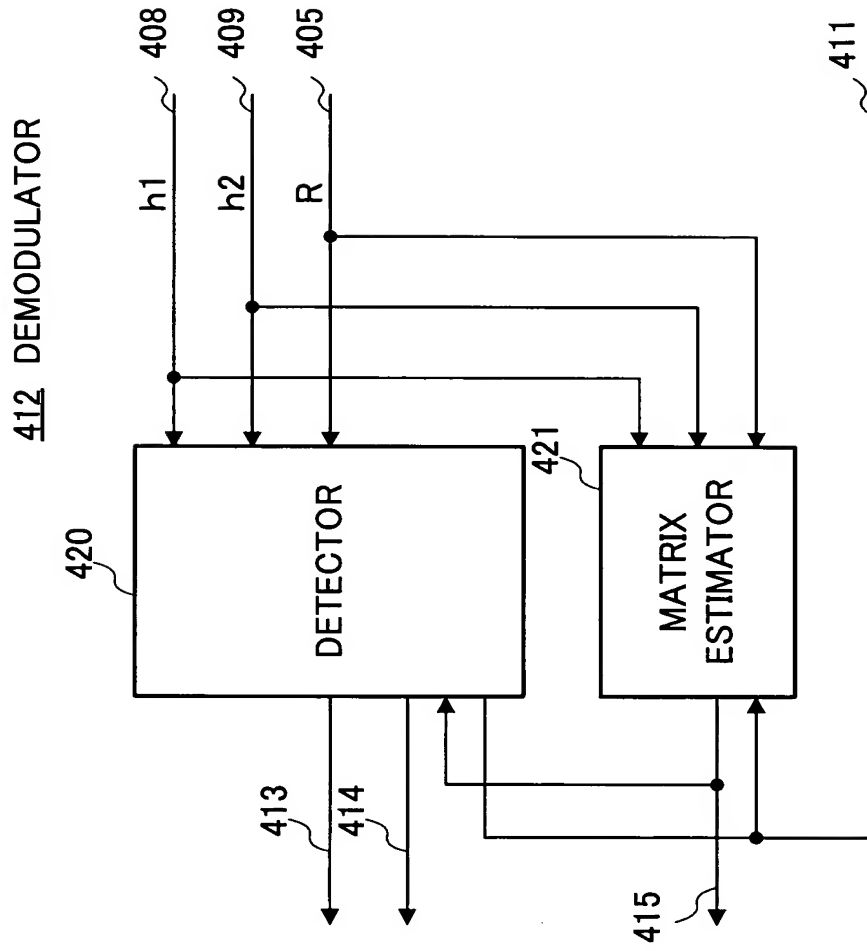


FIG.19

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FIG.20A

WHEN DATA 101C
REPRESENTS "0"

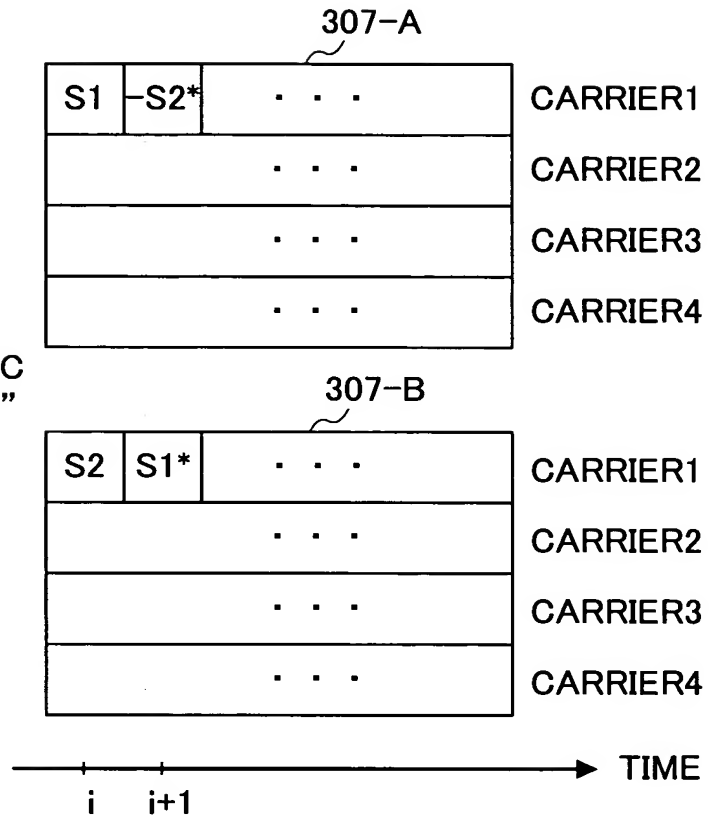
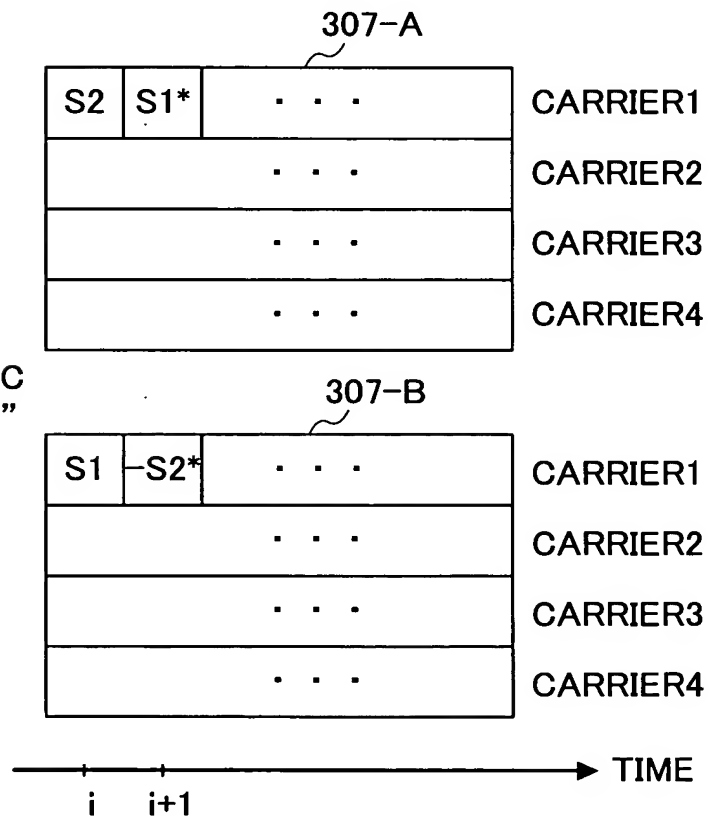
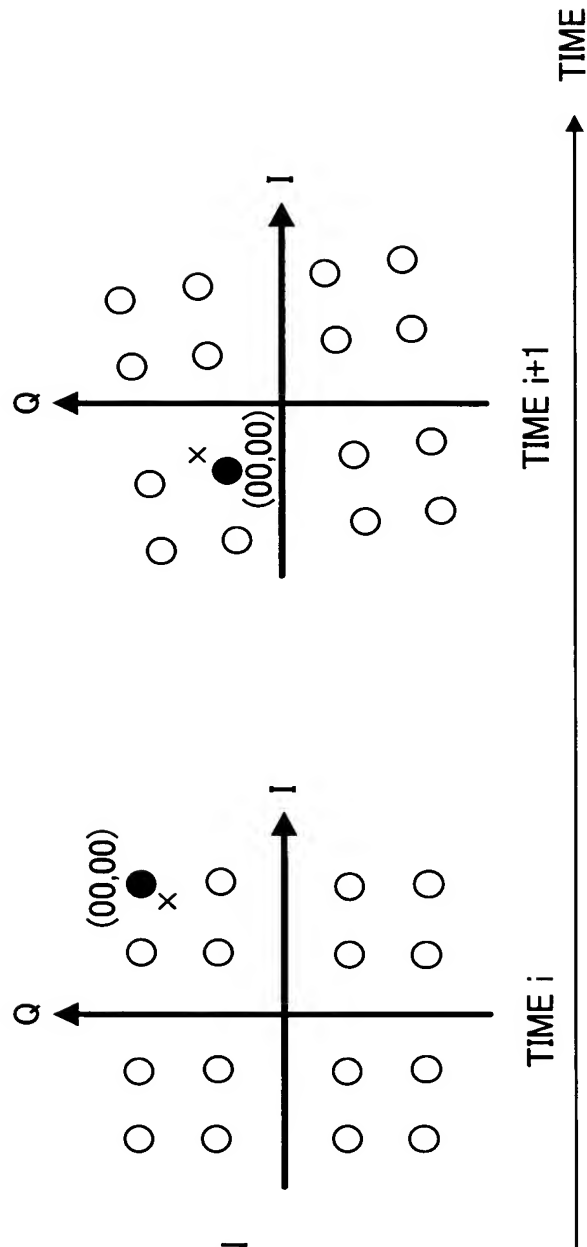


FIG.20B

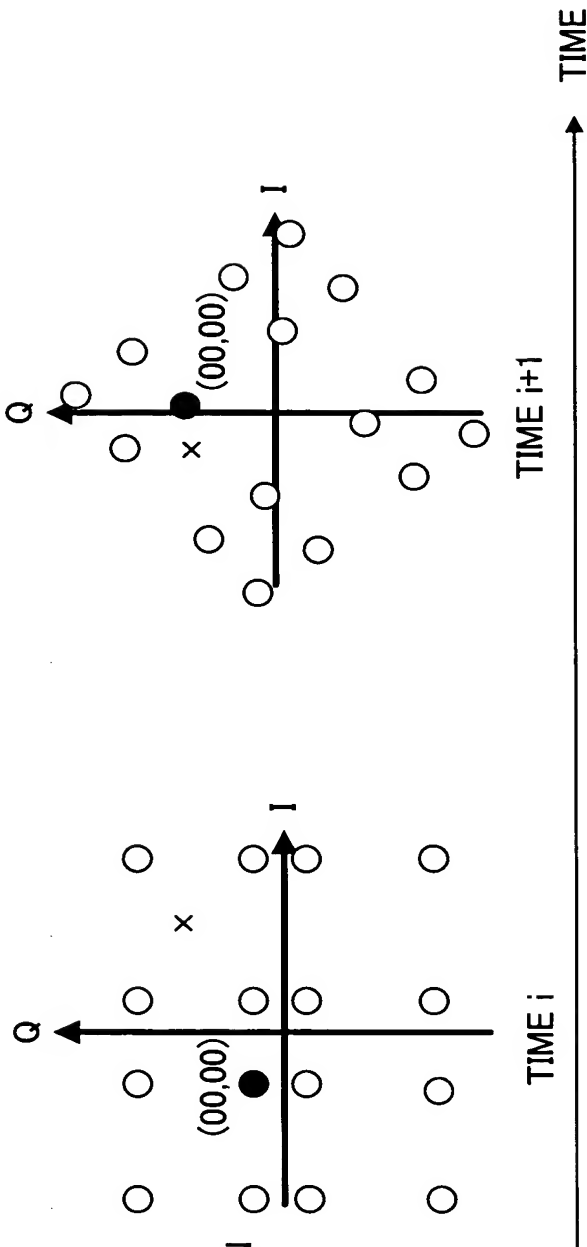
WHEN DATA 101C
REPRESENTS "1"







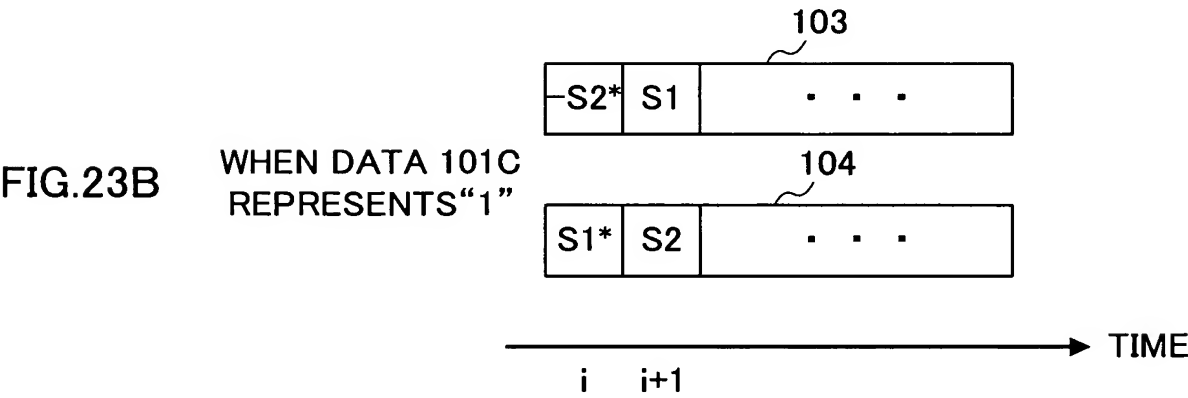
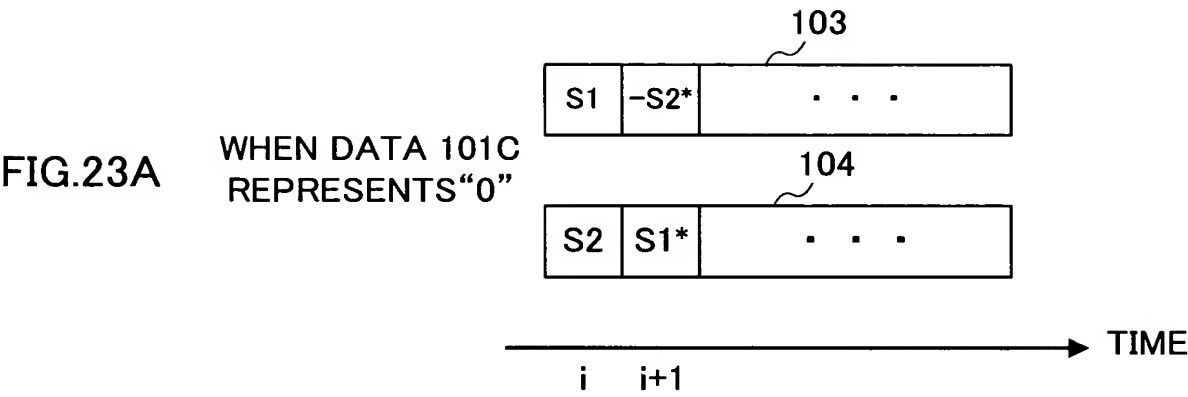
TRANSMISSION
FOLLOWING
EQUATION (1)



TRANSMISSION
FOLLOWING
EQUATION (2)

FIG.22B

FIG.22A



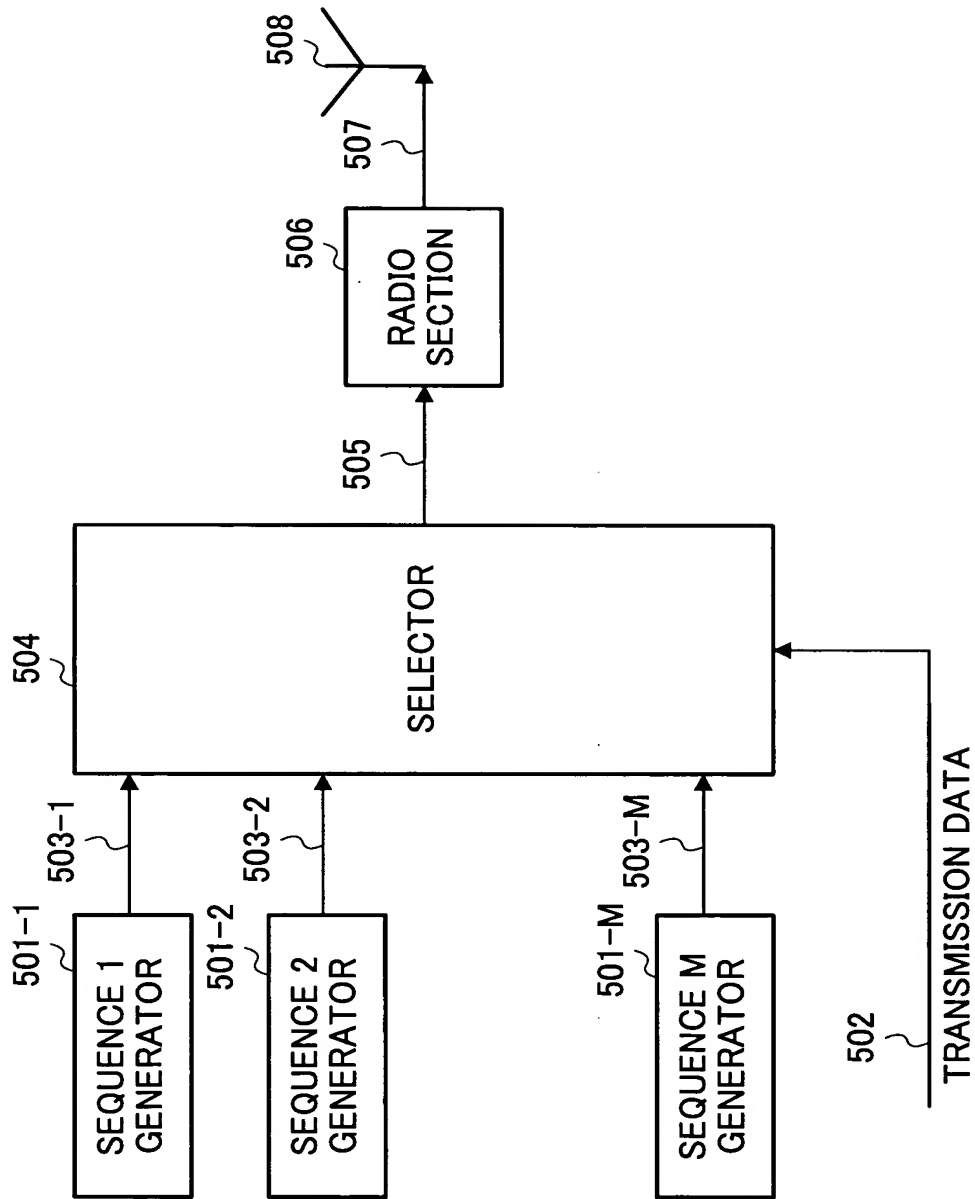
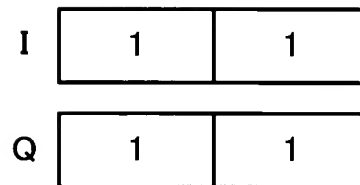


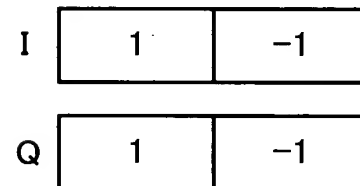
FIG.24

FIG.25A
WHEN DATA
REPRESENTING
"0" IS SENT



...

FIG.25B
WHEN DATA
REPRESENTING
"1" IS SENT



TIME

FIG.26A WHEN DATA
REPRESENTING
"00" IS SENT

I	1	3
Q	3	1

FIG.26B WHEN DATA
REPRESENTING
"01" IS SENT

I	-1	3
Q	3	-1

FIG.26C WHEN DATA
REPRESENTING
"10" IS SENT

I	1	-1
Q	3	3

...

FIG.26D WHEN DATA
REPRESENTING
"11" IS SENT

I	3	-3
Q	1	1

—————→ TIME
 i i+1